SEQUENCE LISTING

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<120> PHARMACEUTICALS FOR THE IMAGING OF ANGIOGENIC DISORDERS

<130> BMS-2288

<140> US 10/622,246
<141> 2003-07-18

<150> US 10/342,081
<151> 2003-01-14

<150> US 09/599,295
<151> 2000-06-21

<150> US 09/281,474
<151> 1999-03-30

<150> US 60/080,150
<151> 1998-03-31

<150> US 60/112,715
<151> 1998-12-18

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<170> PatentIn version 3.2

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<211> 5
<212> PRT
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<220>
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<220>
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<223> 99mTc (tricine) (TPPDS)

<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]-3-aminopropyl)

<400> 35

Arg Val Tyr Asp Gly
1 5

<210> 36
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<223> cyclic amino acid

<220>
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<223> D amino acid

<220>
<221> MISC_FEATURE
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<223> (N-[[5-carbonyl]-2-pyridinyl]diazenido]-3-aminopropyl)

<400> 36

Arg Val Tyr Asp Gly
1 5

<210> 37
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
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<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<400> 37

Arg Gly Asp Phe Lys
1 5

<210> 38
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE

<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<400> 38

Arg Gly Asp Tyr Lys
1 5

<210> 39
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid]

<220>
<221> MISC_FEATURE
<222> (3)..(7)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (8)..(12)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> D amino acid

<400> 39

Phe Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 40
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = naphthyl alanine

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<400> 40

Arg Gly Asp Xaa Lys
1 5

<210> 41
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid]

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = naphthyl alanine

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa = naphthyl alanine

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 41

Glu Lys Arg Gly Asp Xaa Lys Arg Gly Asp Xaa
1 5 10

<210> 42
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]-18-amino-14-aza-4,7,10-o
xy-15-oxo-octadecoyl)-3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<400> 42

Arg Gly Asp Tyr Val
1 5

<210> 43
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> O cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> O cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 43

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 44
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> 99mTc (tricine) (TPPTS)

<220>
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<222> (1)..(1)
<223> N-[[5-[carbonyl]-2-pyridinyl]diazenido]

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> (3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(6)

<223> O cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> (3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> O cyclic amino acid

<400> 44

Glu Tyr Val Arg Gly Asp Tyr Val Arg Gly Asp
1 5 10

<210> 45
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> D amino acid

<400> 45

Arg Gly Asp Lys Val
1 5

<210> 46
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)

<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (1)..(3)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<400> 46

Lys Phe Asp Gly Arg
1 5

<210> 47
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthethic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> [2-[[[5-carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid]

<220>
<221> MISC_FEATURE
<222> (2)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(9)
<223> D amino acid

<400> 47

Glu Lys Phe Asp Gly Arg Lys Phe Asp Gly Arg
1 5 10

<210> 48
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(3)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> [2-[[[5-[carbony]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid]

<400> 48

Phe Lys Asp Gly Arg
1 5

<210> 49
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
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<222> (1)..(1)
<223> a-N-methyl

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = 2-aminothiazole-5-acetic acid or 2-aminothiazole-5-acetyl group

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> D amino acid

<400> 49

Arg Gly Asp Xaa Lys
1 5

<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = citrulline

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 99mTc (tricine) (TPPTS)

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> ([2-[[[5-carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic
acid])

<400> 50

Xaa Gly Asp Phe Lys
1 5

<210> 51
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 99mTC (tricine) (1,2,4-triazole)

<220>
<221> MISC_FEATURE
<222> (1)..(5)

<223> cyclic amino acid

<220>
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<222> (4)..(4)
<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]-3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<400> 51

Arg Gly Asp Tyr Val
1 5

<210> 52
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> (DOTA-111In)

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 52

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 53
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(5)

<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> (DTPA-111In)

<400> 53

Arg Gly Asp Phe Lys
1 5

<210> 54
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> 2 (DTPA-111In)

<400> 54

Arg Gly Asp Phe Lys
1 5

<210> 55
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)

<223> (DTPA-153Sm)

<400> 55

Arg Gly Asp Phe Lys
1 5

<210> 56
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> 2 (DTPA-153Sm)

<400> 56

Arg Gly Asp Phe Lys
1 5

<210> 57
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
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<222> (4)..(4)
<223> (N-DTPA(153Sm)-3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<400> 57

Arg Gly Asp Tyr Val
1 5

<210> 58
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> (DTPA-177Lu)

<400> 58

Arg Gly Asp Phe Lys
1 5

<210> 59
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> (DOTA-177Lu)

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 59

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 60
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> 2 (DTPA-177Lu)

<400> 60

Arg Gly Asp Phe Lys
1 5

<210> 61
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> (N-DTPA(177Lu)-3-aminopropyl

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<400> 61

Arg Gly Asp Tyr Val
1 5

<210> 62
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)

<223> (DOTA-90Y)

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 62

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 63
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> (N-DTPA(Gd(III)-3-aminopropyl)

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<400> 63

Arg Gly Asp Tyr Val
1 5

<210> 64
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)

<223> 1-(1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamino)-12

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> dodecane-1,12-dione

<400> 64

Arg Gly Asp Phe Lys
1 5

<210> 65
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> 1-(1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamino)-12-(omega-am
ino-PEG3400-alpha-carbonyl)

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> dodecane-1,12-dione

<400> 65

Arg Gly Asp Phe Lys
1 5

<210> 66
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE

<222> (1)..(1)
<223> 1-(1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamino)-12-(omega-am
ino-PEG3400-alpha-carbonyl)

<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> 2)-Dodecane-1,12-dione

<400> 66

Glu Arg Gly Asp Phe Lys
1 5

<210> 67
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 67

Met Trp Tyr Arg Pro Asp Leu Asp Glu Arg Lys Gln Gln Lys Arg Glu
1 5 10 15

<210> 68
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 68

Ala Gln Leu Ala Gly Glu Cys Arg Glu Asn Val Cys Met Gly Ile Glu
1 5 10 15

Gly Arg

<210> 69
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 69

Ala Pro Ser Gly His Tyr Lys Gly
1 5

<210> 70
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 70

Lys Arg Thr Gly Gln Tyr Lys Leu
1 5

<210> 71
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<400> 71

Arg Gly Asp Arg Gly Asp
1 5

<210> 72
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<222> (1)..(6)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<400> 72

Arg Gly Asp Arg Gly Asp
1 5

<210> 73
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73

Arg Gly Asp Arg Gly Asp
1 5

<210> 74
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (1)..(5)
<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = methoxy-trimethylbenzenesulfonyl

<400> 74

Ala Arg Gly Asp Xaa
1 5

<210> 75
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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l)-propanamido)propyl)

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Lys Val Arg Gly Asp
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Lys Val Tyr Asp Gly
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Arg Gly Asp Phe Lys
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Glu Arg Gly Asp Phe Lys
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